



Norwegian, Nordic and International Climate Realist Conferences 2014-2018

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1. Introduction

The organization Climate Realists of Norway was started in 2009 and part of our activity is to present facts about climate and climate change in public meetings. It soon became evident that many of our members wanted to learn more about climate to be stronger in the public debate. We therefore started internal seminars and a newsletter in addition to information in social media.

The seminars evolved into conferences, first for own members (2014 and 2015), then together with Nordic sister organizations (2017-2019). In the following I will present a summary of the four previous conferences as an introduction to the 2019 Oslo Conference, which also marked the 10th anniversary of the Climate Realists of Norway.

2. 2014 September 28-30: Conference cruise Oslo-Copenhagen-Oslo

38 participants boarded the ship *Pearl Seaways* in Oslo a few hours before it departed. We had three lecturers and showed part of the film *The Global Warming War* before the ship left Oslo at 16:30. Sailing out the Oslo Fjord professor Ole Humlum told how the landscape was formed during the previous ice age.



Figure 1. Visit to Center for Sun-Climate Research at Denmark's Technical University. The host Professor Henrik Svensmark is no 5 from the right in the first row. (Photo: Yngvar Engebretsen).

The ship arrived in Copenhagen the next morning at 9:45 and we went by bus to Denmark Technical University (DTU) Center for Sun-Climate Research headed by Prof. Henrik Svensmark. Here we had lectures about the research of the Svensmark Group and a tour of their laboratory in addition to two lectures on DTU's Greenland research.

On the ship back to Oslo we had lectures by Trygve Eklund, Helge Gerhard Gran, Ole Humlum, Jan-Erik Solheim, Per Strandberg, Odd Vaage and Harald Yndestad in addition to internal discussions.

3. 2015 June 7-9: Conference cruise Oslo-Kiel-Oslo

23 participants from Norway and Sweden had a conference on the ship *Color Magic*, which left Oslo at 14:00 and arrived in Kiel the next morning at 10:00. In Kiel the ship was in port for four hours and Professor Fritz Vahrenholt from Hamburg, came on board and gave a special lecture on *The German situation with respect to climate science and energy policy*. During the crossing from Oslo to Kiel and back we had talks by Fred Goldberg, Göran Henriksson, Niklas Mörner, Ole Humlum, Jan-Erik Solheim and Geir Aaslid. At the end of the cruise Dr. Fred Goldberg invited us for a next conference together with Swedish climate realists in Stockholm the following year.



Figure 2. Climate Cruise to Kiel 7-9 June 2015. Professor Vahrenholt is no 5 from the right in the second row. (Photo: Yngvar Engebretsen)

4. 2016 October 7-9: Stockholm and Uppsala

The first part of the conference was held on Högberga Gård, Lidingø, Stockholm and was a cooperation between Swedish Polar Institute AB, Norwegian Climate Realists, and the Swedish network Climate Sense. In total 74 participants attended the meeting. Speakers were Stein Bergsmark, Trygve Eklund, Martin Hovland, Ole Humlum, Hans Jelbring, Anders Lindroth, Nils-Axel Mörner, Torstein Seim, and Jan-Erik Solheim. The local organizing committee consisted of Fred Goldberg, Tege Tornvall and Sture Åström.

On the last day the Norwegian participants were invited by ICOS (Integrated Carbon Observatory System) Director Anders Lindroth to visit their measuring station Norunda north of Uppsala. The station has a 100 m high mast, where air can be sampled and analyzed. On the tour we had a talk by Göran Henriksson and in Odin Restaurant in Gamla Uppsala, we had a lecture by Wi-björn Karlén, member of Royal Academy of Sweden and expert on CO₂ and temperature measurements. Figure 3 shows measurements of CO₂ at elevation 100 m at Norunda since 2015

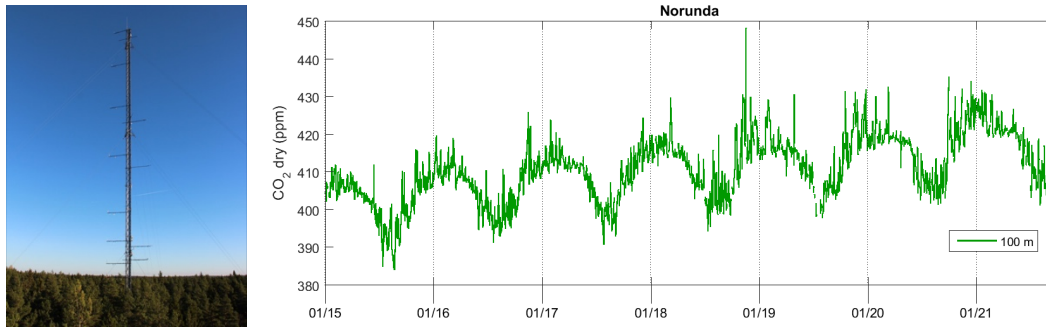


Figure 3. The ICOS measuring tower and CO₂ measurements 2015-2021

5. 2018 February 16-17: Climate Sense, Mölndal, Göteborg

The conference was organized by the Swedish Climate Sense and Norwegian Climate Realists with support by CLEXIT and the Stockholm Initiative. The conference took place in the Scandic conference hotel in Mölndal in the outskirts of Göteborg. Local organizers were Tege Tornvall and Sture Åström and the Norwegian organizer Elen Roaldset. Specially invited was Dr. Wille Soon from U.S.A. The first part of the conference was held in English, the second part in Nordic languages. In total we had 123 participants from Sweden, Norway, and Denmark.

Talks were given by Stein Bergsmark, Rögnvaldur Hanneson, Jens Morten Hansen, Ole Humlum, Claes Johnson, Søren Holst Kjærsgård, Nils-Axel Mörner, Jacob Nordangård, Jan-Erik Solheim, Wille Soon, Henrik Svensmark, Tege Tornvall, Gösta Walin, Per Wellander, Staffan Wennberg and Sture Åström. In addition, we had some posters.

On the return trip to Oslo next day, the 40 Norwegian participants visited Båhus Castle, the Shell Bank Museum in Uddevalla, a Wind-power company in Rabbaldshede, the World Heritage Rock Carvings in Tanum and the Solberg tower in Skjeberg where the land rising after the last Ice age is well documented.



Figure 4. The Mölndal conference participants. (Photo: Yngvar Engebretsen)References

6. Conclusion

As a response to the growing interest for Nordic Climate Conferences, with international speakers, it was time to invite to the next one in Norway. The next one took place in Oslo October 18-19, 2019 and had the theme *Natural Variability and Tolerance*, and abstracts of the talks are presented in the following papers.